



MIDWEST WIRELINE

# DUAL INDUCTION LOG

**Company** MG Oil, Inc.  
**Well** Lawrence Unit #15-2  
**Field** N&J  
**County** Lane **State** Kansas

**Location:** API #: 15-101-22659-00-00  
 SE SE SE NW  
 2400 FNL & 2453 FWL  
 SEC 15 TWP 16S RGE 28W  
**Permanent Datum** Ground Level Elevation 2576  
**Log Measured From** Kelly Bushing  
**Drilling Measured From** Kelly Bushing  
 Other Services: CNL/CDL, MEL/BHCS  
 Elevation: K.B. 2584, D.F., G.L. 2576

Date	10/25/2021
Run Number	One
Depth Driller	4510
Depth Logger	4509
Bottom Logged Interval	4508
Top Log Interval	250
Casing Driller	8:625 @ 264
Casing Logger	262
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2300
Density / Viscosity	9.3 50
pH / Fluid Loss	10.0 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.8 @ 70
Rmt @ Meas. Temp	0.6 @ 70
Rmc @ Meas. Temp	1.08 @ 70
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.46 @ 121
Operating Rig Time	4 Hours
Max Rec. Temp. F	121
Equipment Number	P-108
Location	HAYS
Recorded By	T. Martin
Witnessed By	Chad Counts

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All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

**Comments**

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Shields, KS, E side, N on Laredo Rd to 280th  
1.5 E to Newton Rd, S & E into

Log Measured From: Kelly Bushing 8 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC  
785-625-3858

<b>Your Midwest Wireline Crew</b>		<b>This Log Record Was Witnessed By</b>	
Engineer: T. Martin	Operator:	Primary Witness: Chad Counts	Secondary Witness:
Operator:	Operator:	Secondary Witness:	Secondary Witness:
Operator:		Secondary Witness:	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	29.90 29.15		CNT-M&W (10-PSI)	5.50	3.50	100.00
LSD DCAL SSD	20.85 20.83 20.35		CDL-M&W (915-956)	8.50	4.00	250.00
RLL3F RLL3	15.80 15.80		DIL-PSI HIGH TEMP (959-1032)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					

Dataset: mgoil\_lawrence unit #15-2.db: field/well/Stack/pass3.1  
 Total length: 35.50 ft  
 Total weight: 620.00 lb  
 O.D.: 4.00 in

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\mgoil\_lawrence unit #15-2.db  
 Dataset field/well/Stack/pass3.1/\_vars\_

## Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	121	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	650	40	Off	4509

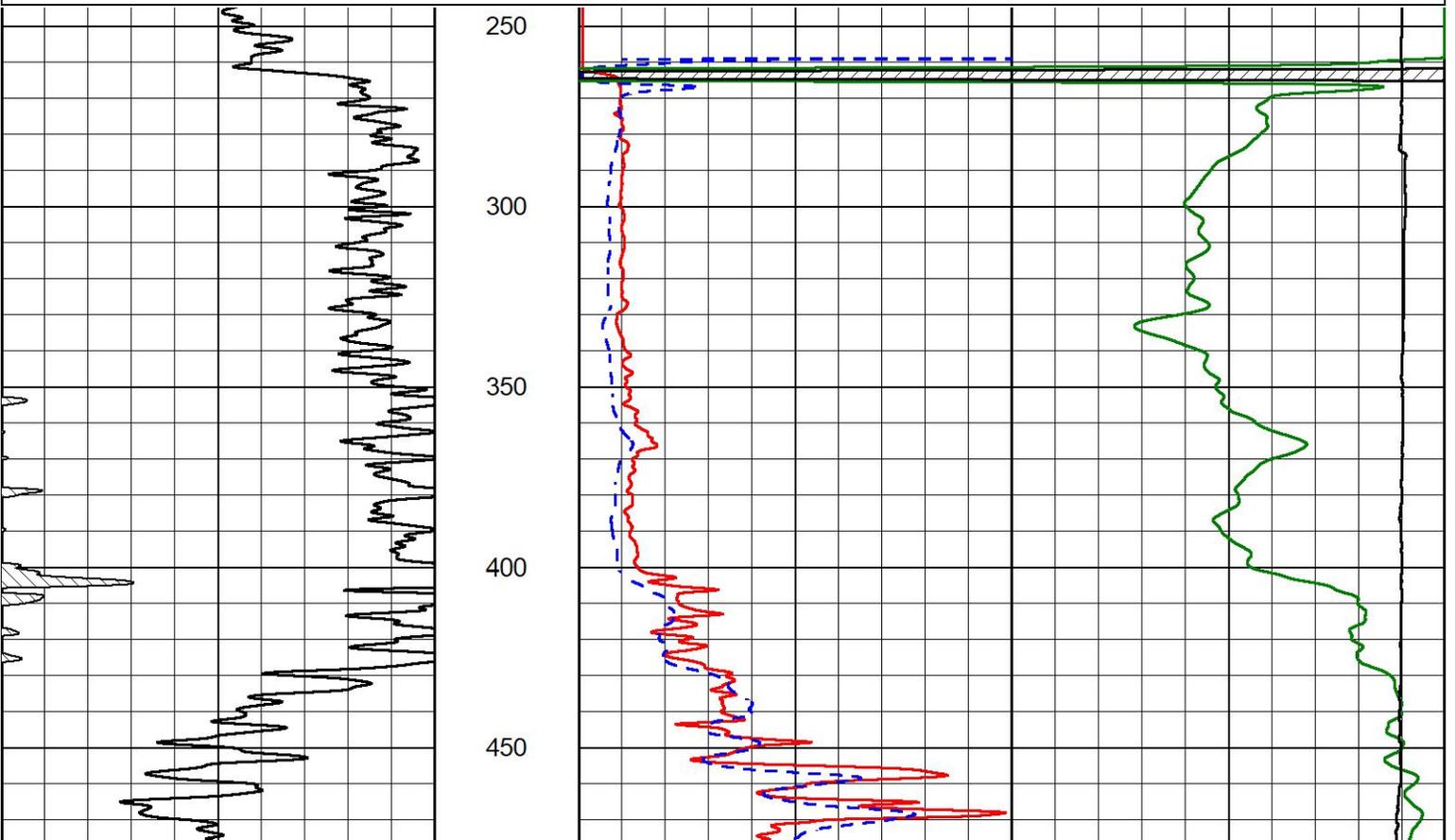


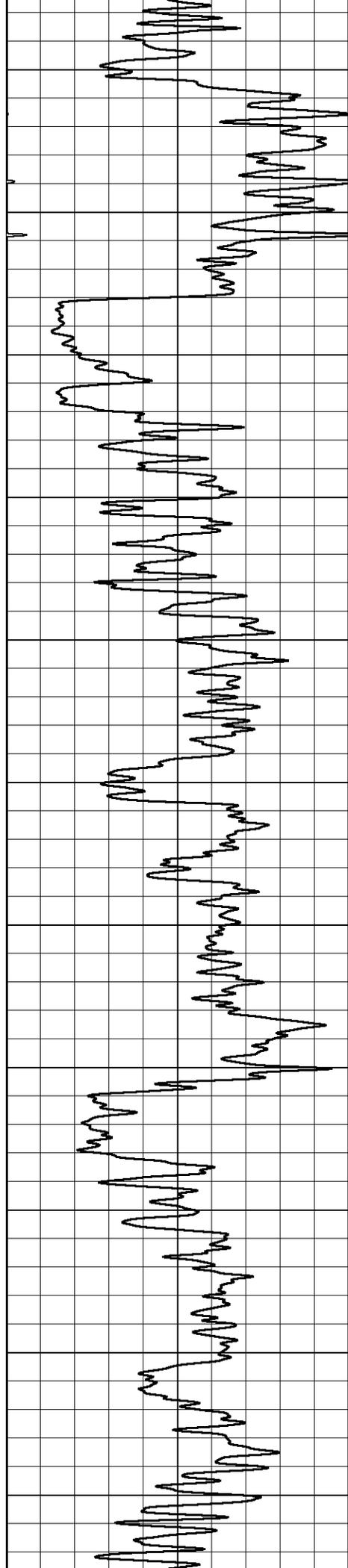
## 2" SCALE RESISTIVITY

### MAIN PASS

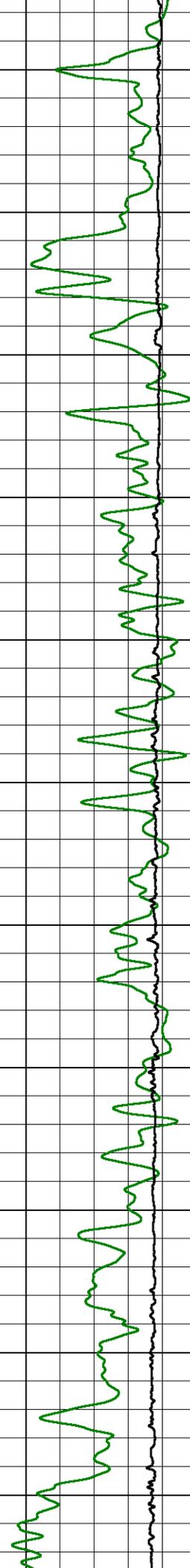
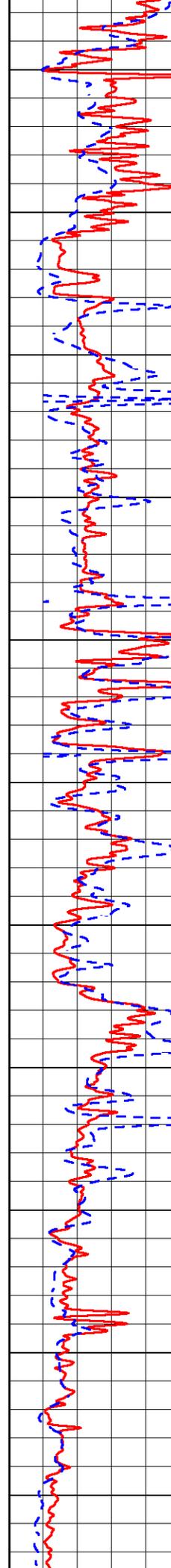
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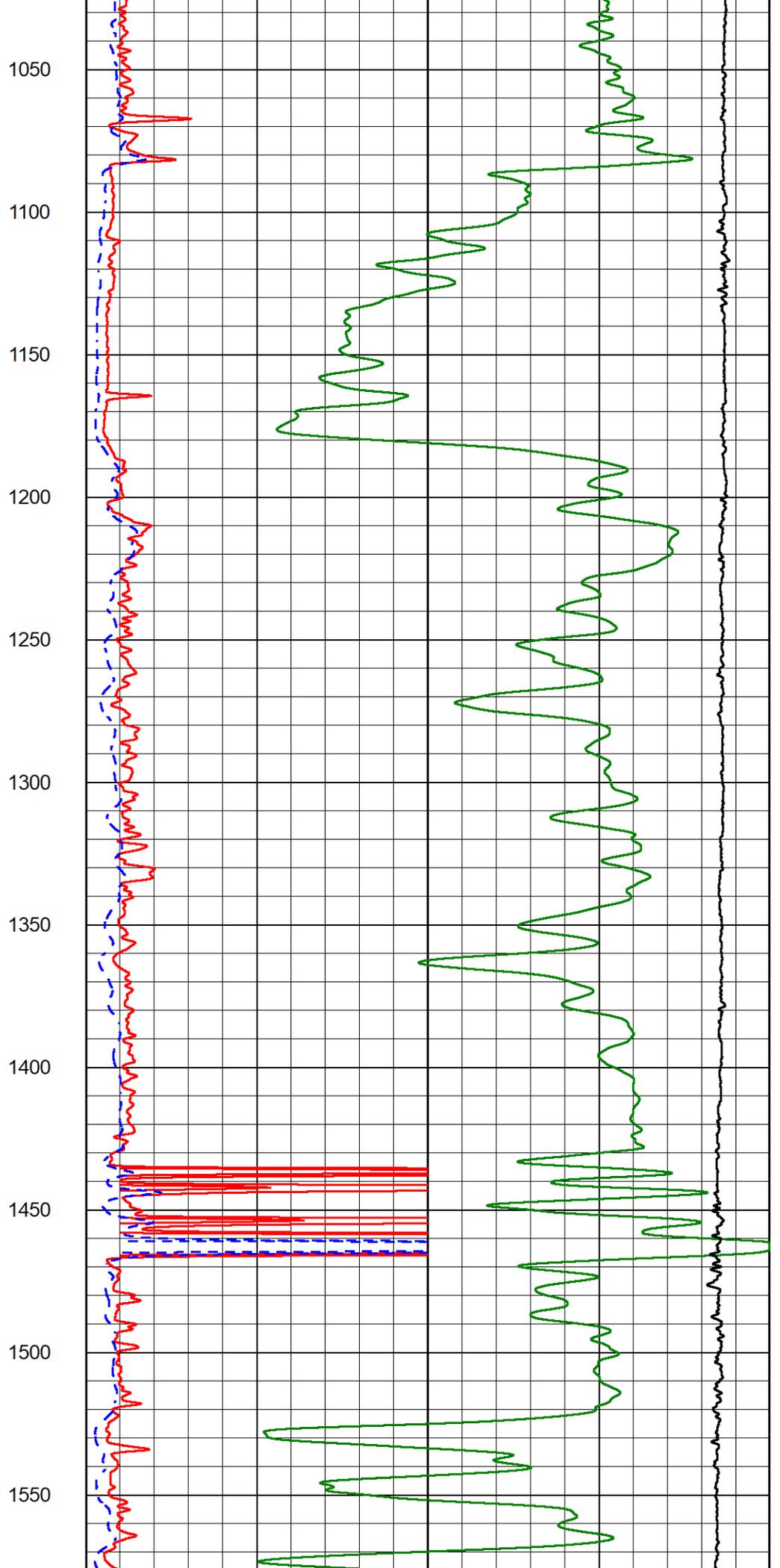
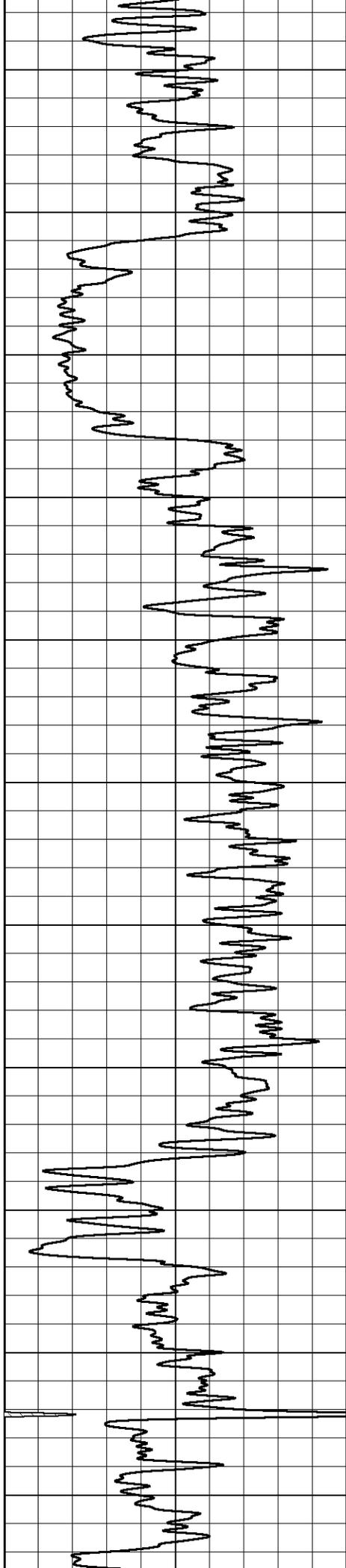
0	Gamma Ray (GAPI)	150	1000	Conductivity (mmho/m)	0
			15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
				Shallow Resistivity	
			50	(Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200

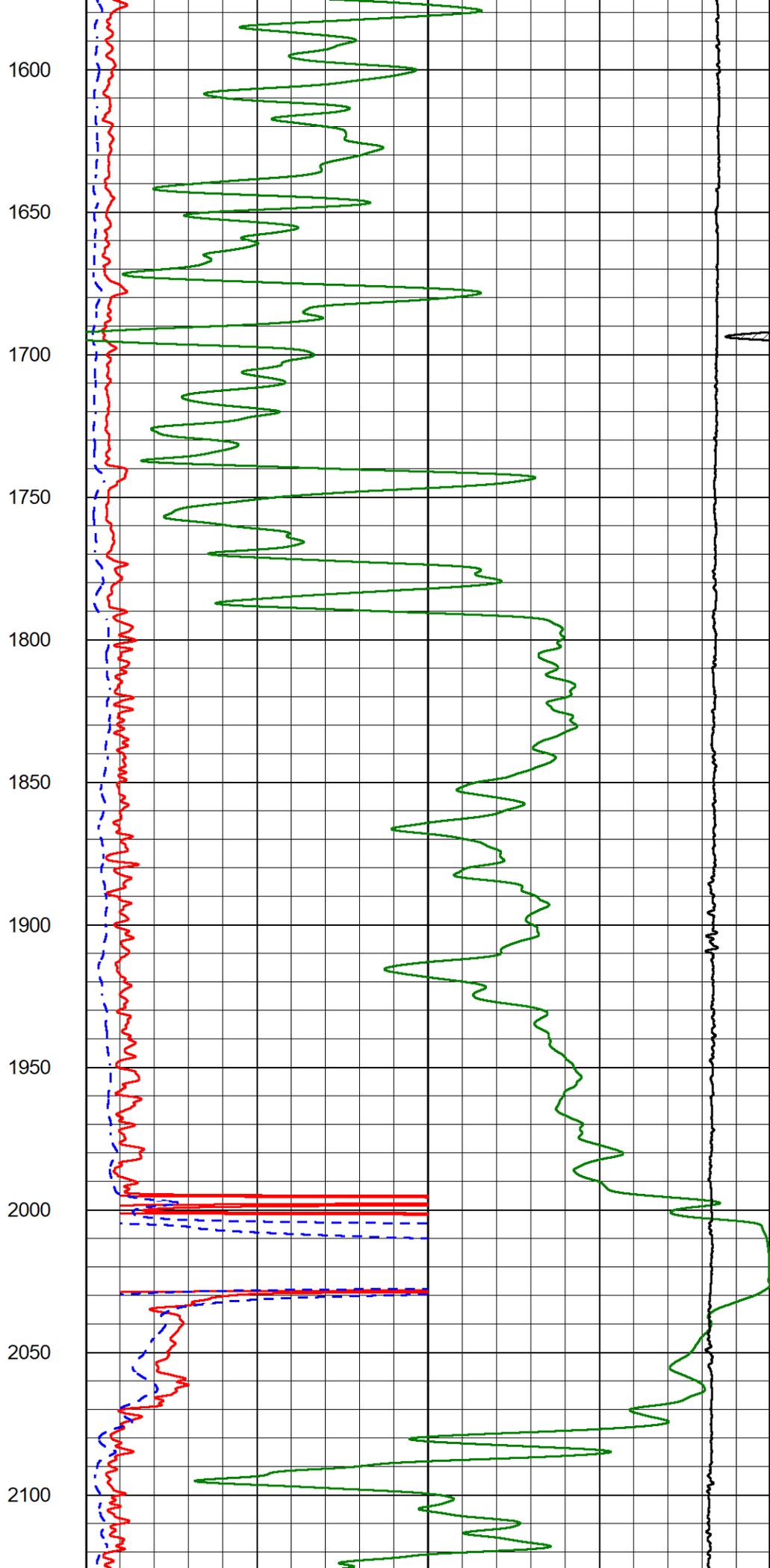
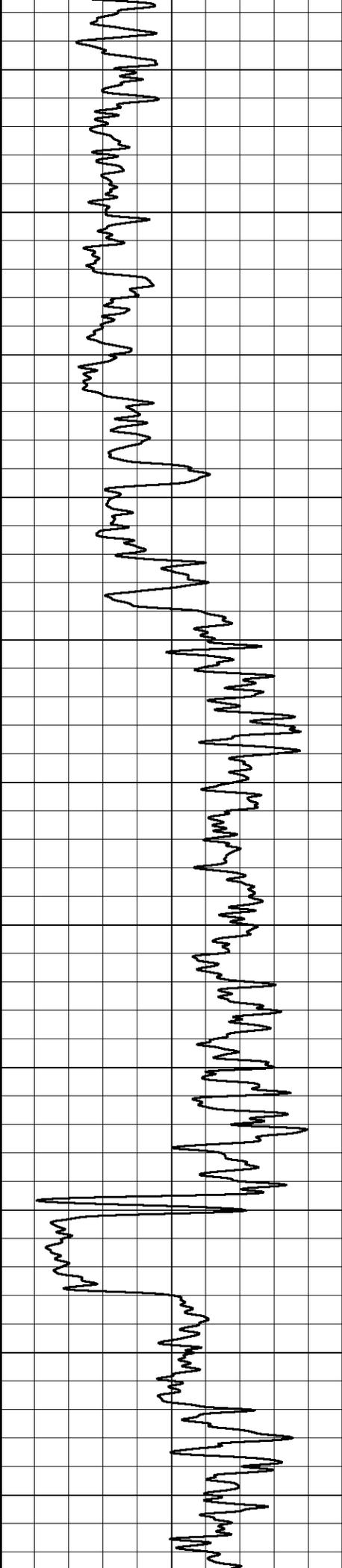


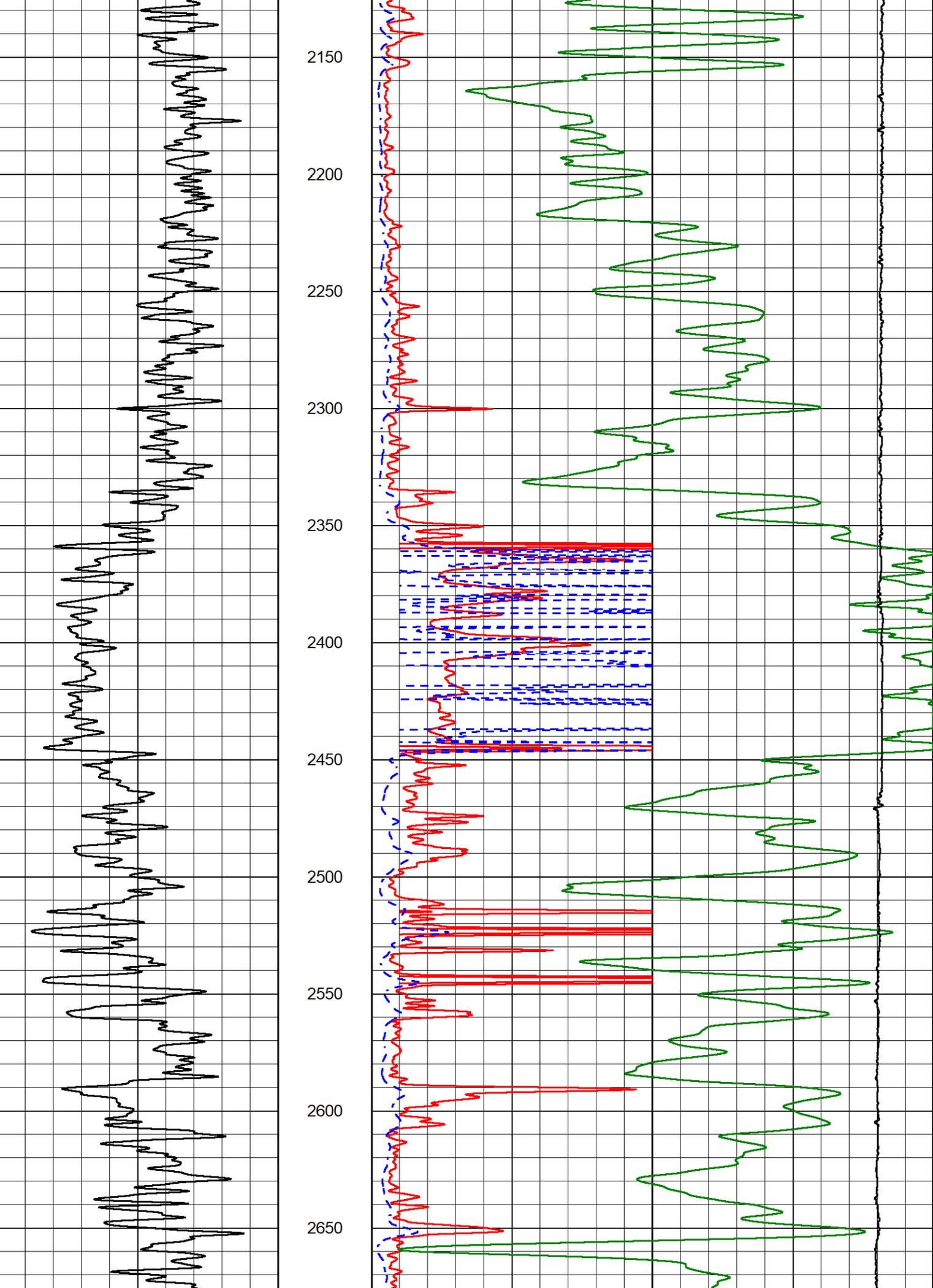


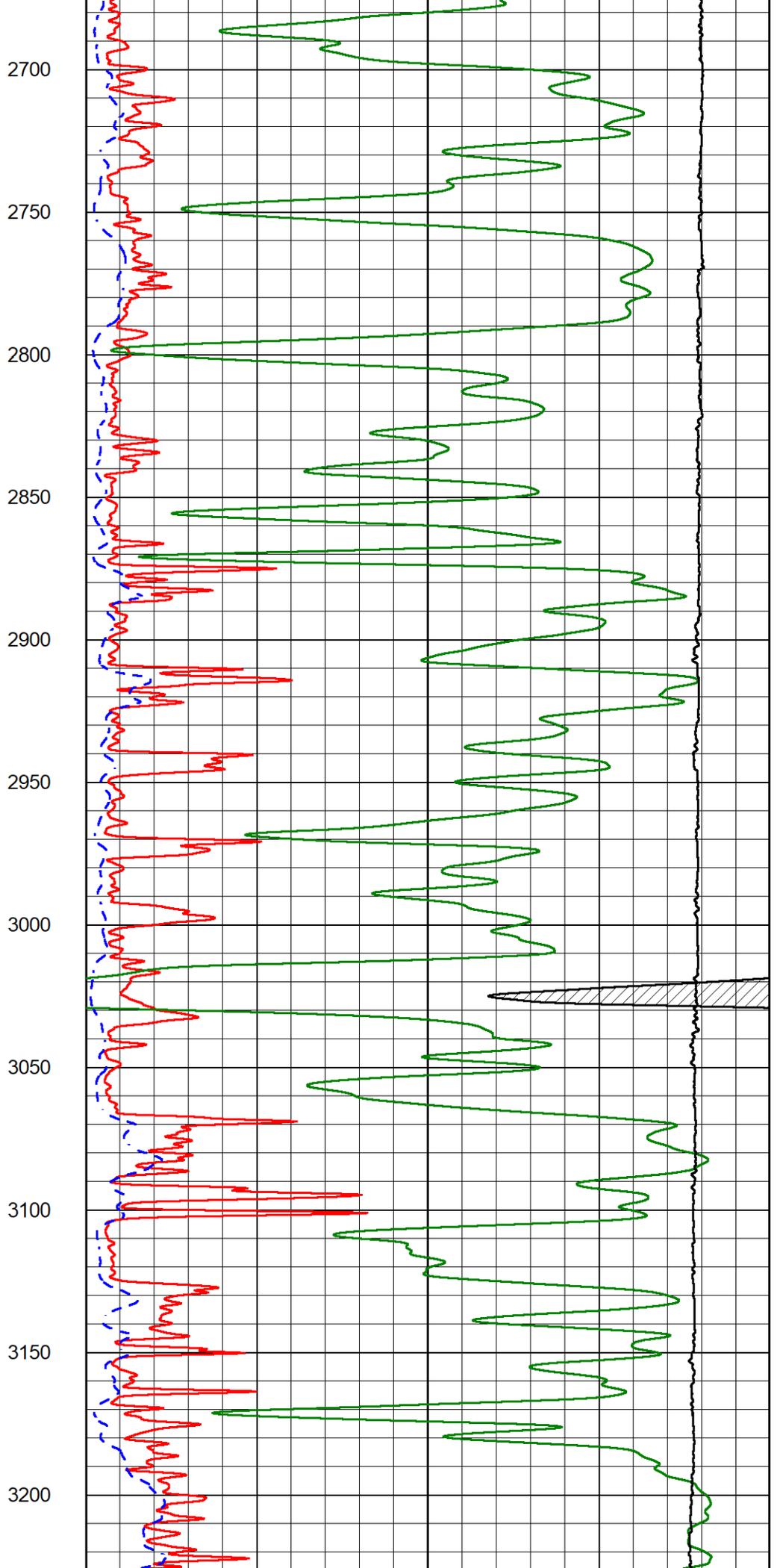
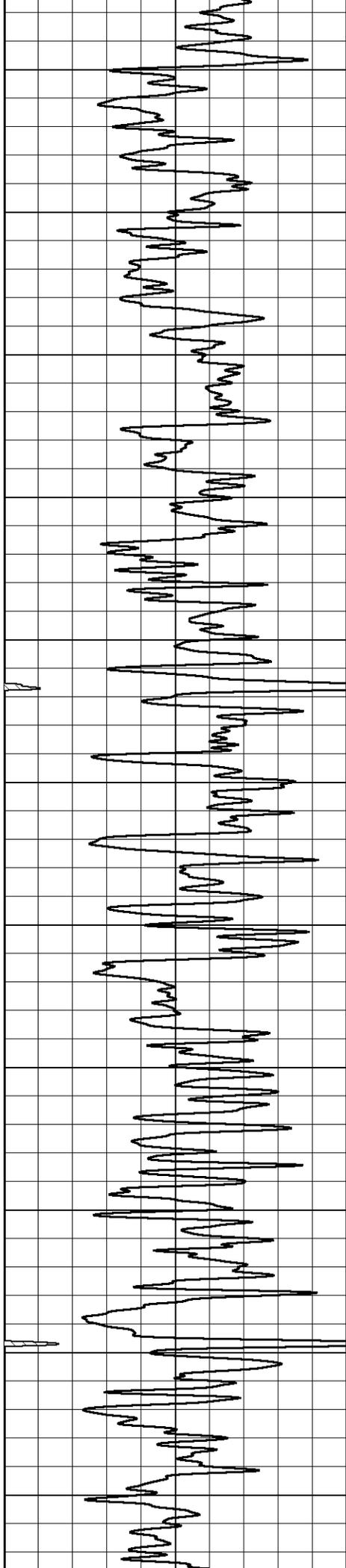
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550  
600  
650  
700  
750  
800  
850  
900  
950  
1000

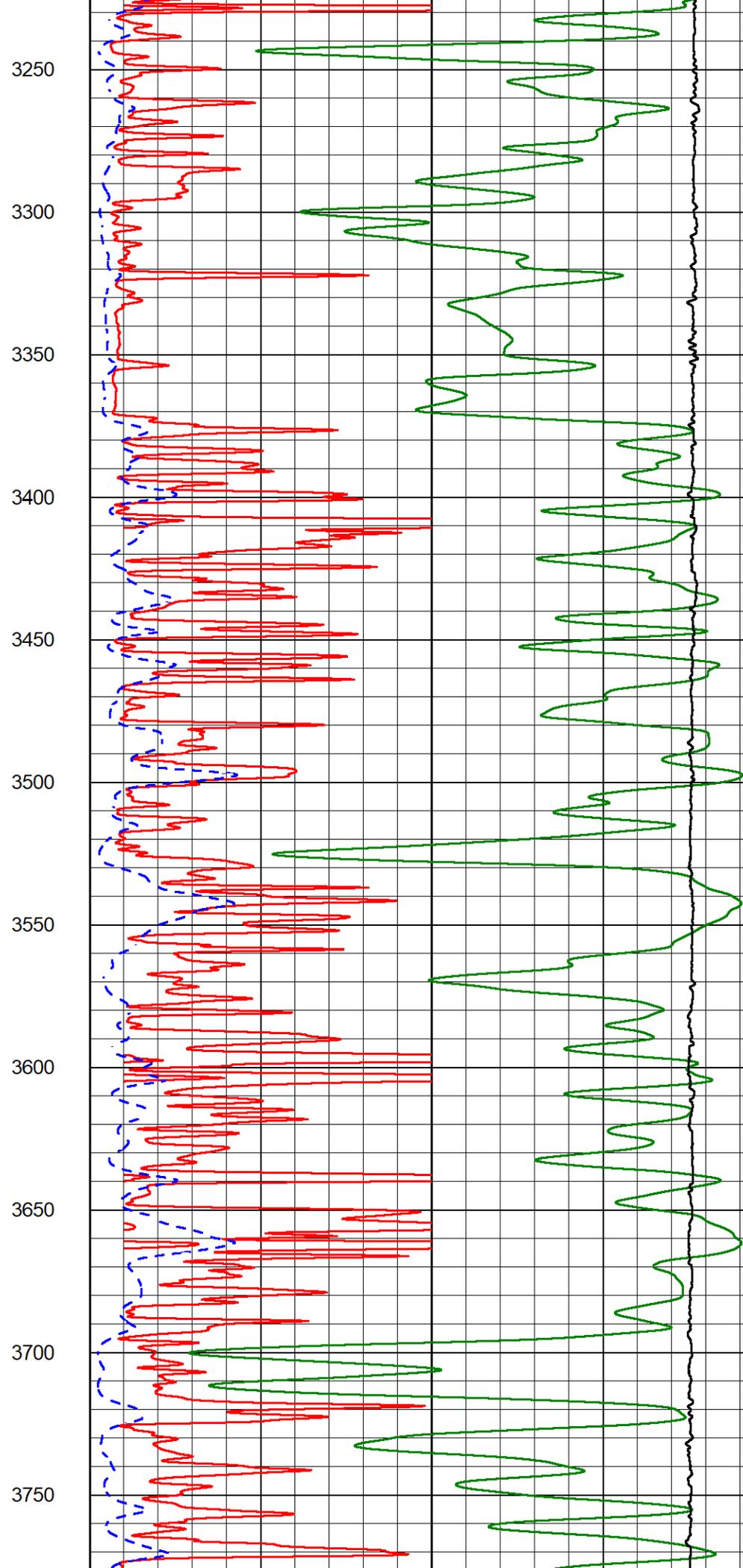
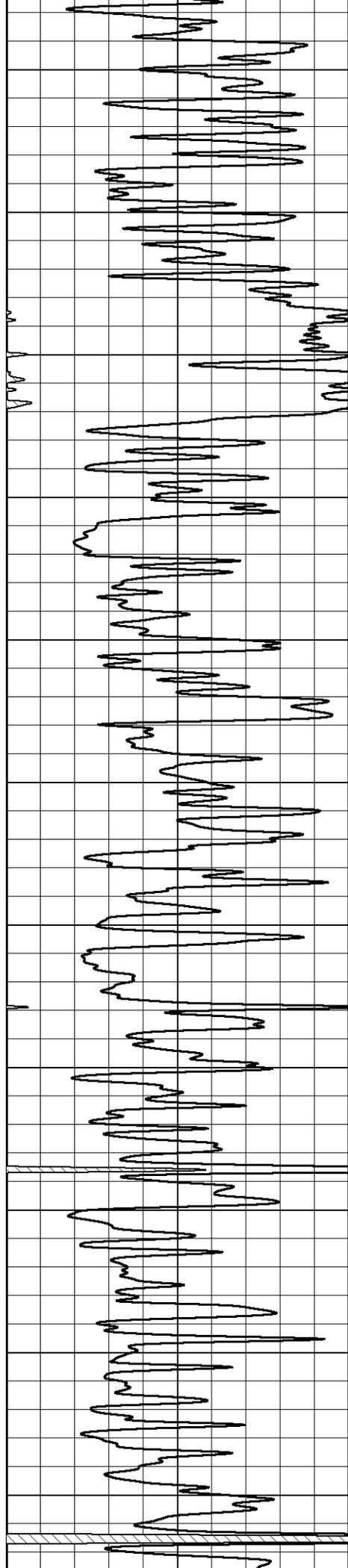


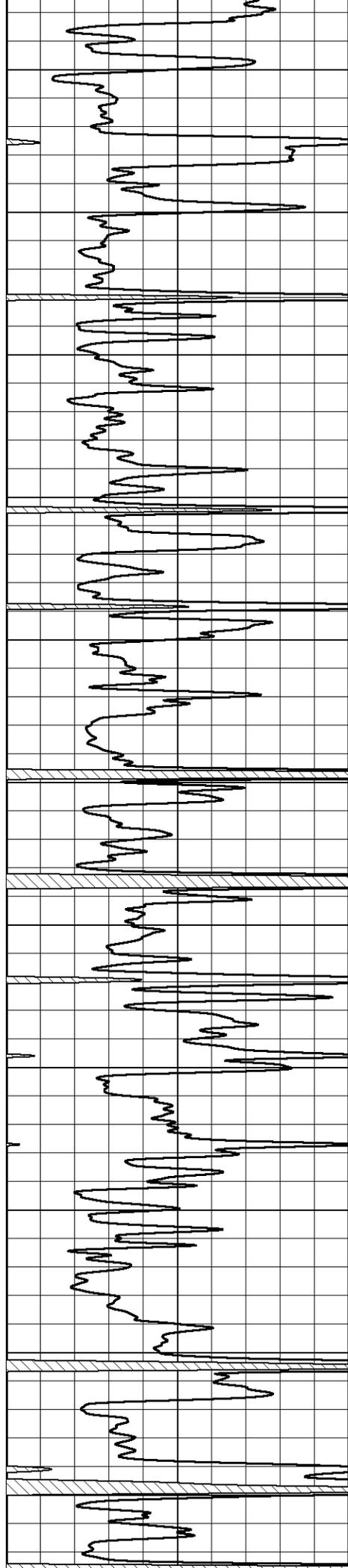












3800

3850

3900

3950

4000

4050

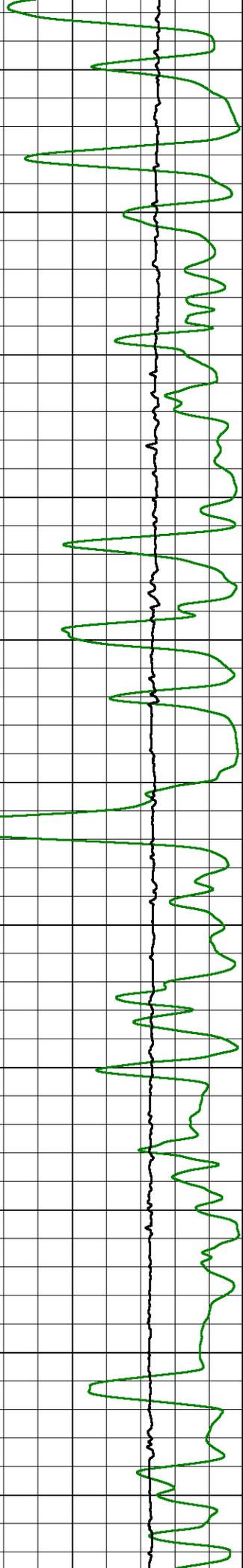
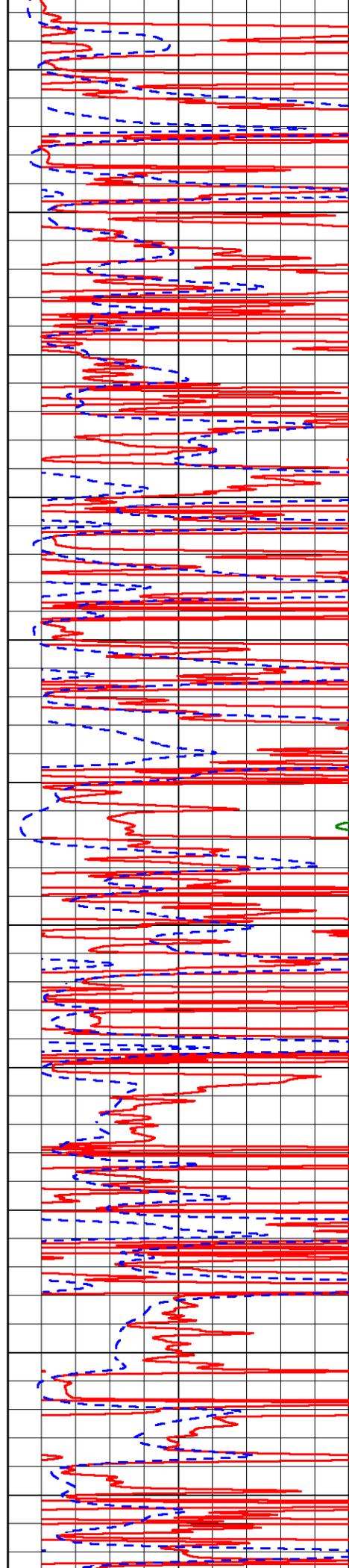
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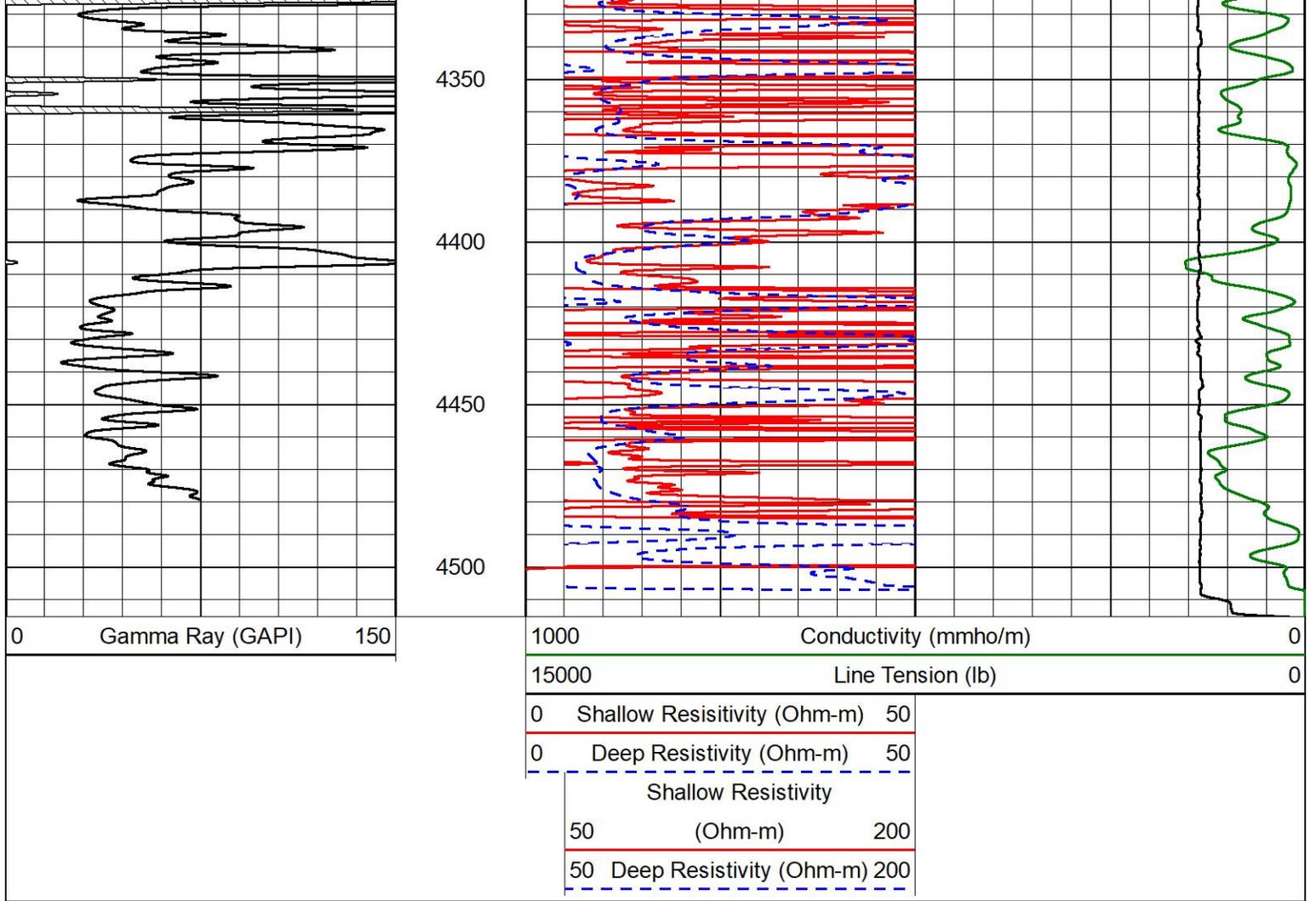
4150

4200

4250

4300





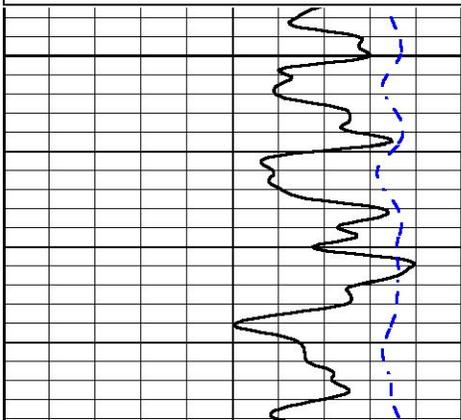
# ANHYDRITE SECTION

## MAIN PASS

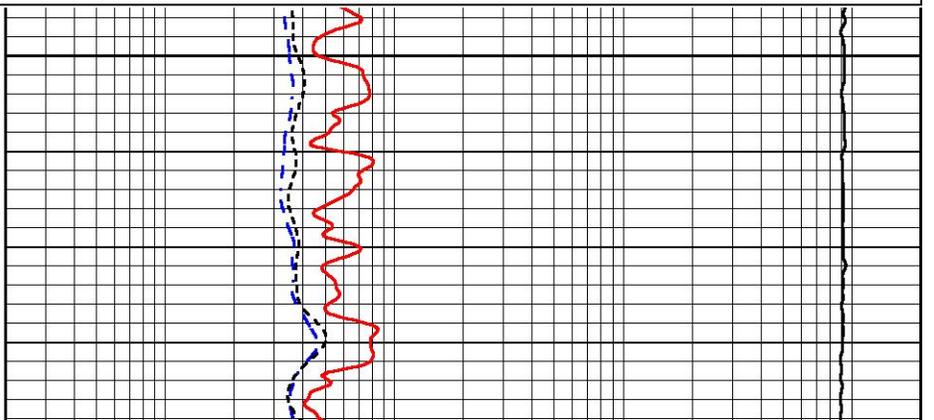
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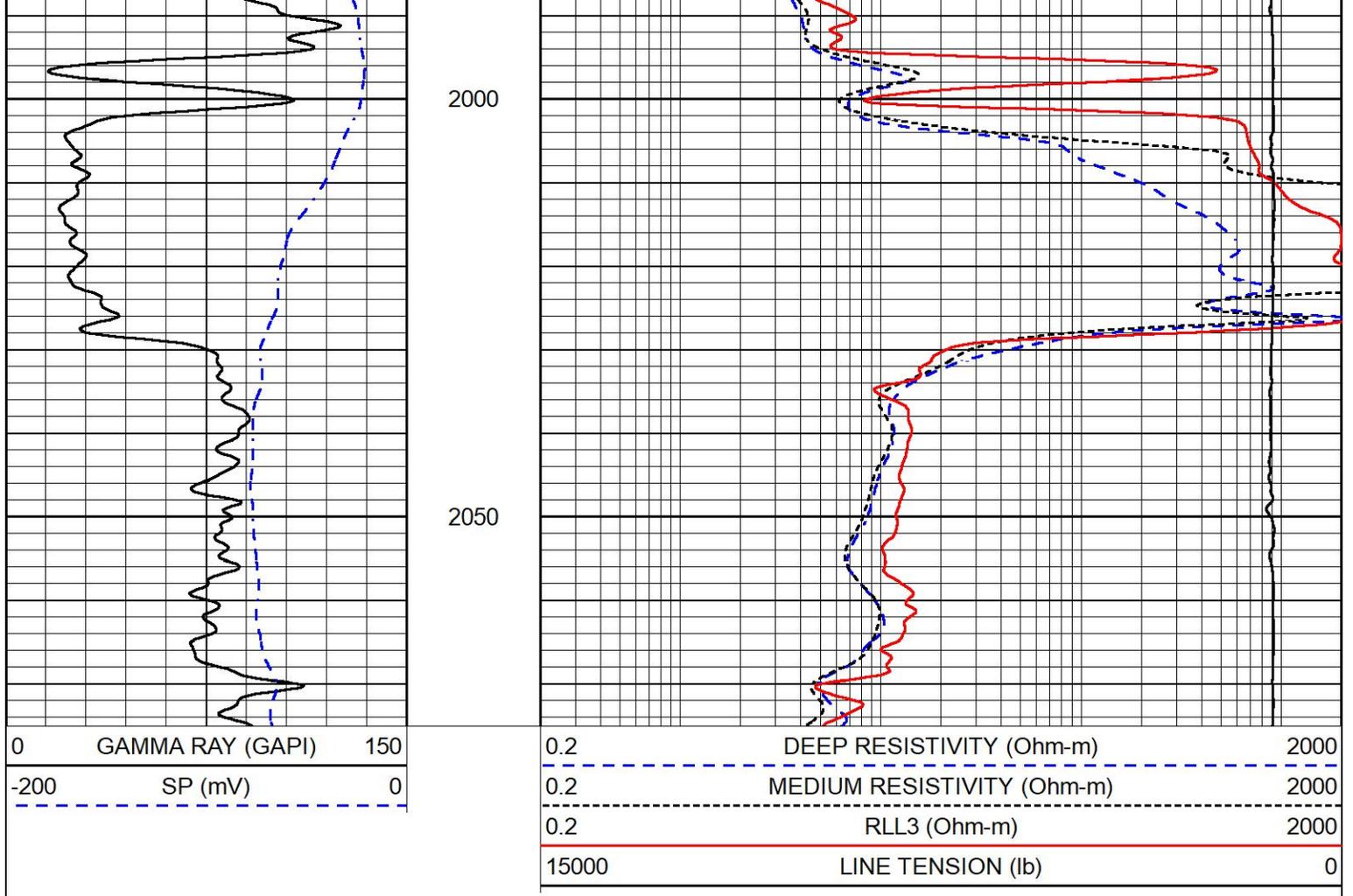
0 GAMMA RAY (GAPI) 150  
 -200 SP (mV) 0

0.2 DEEP RESISTIVITY (Ohm-m) 2000  
 0.2 MEDIUM RESISTIVITY (Ohm-m) 2000  
 0.2 RLL3 (Ohm-m) 2000  
 15000 LINE TENSION (lb) 0



1950

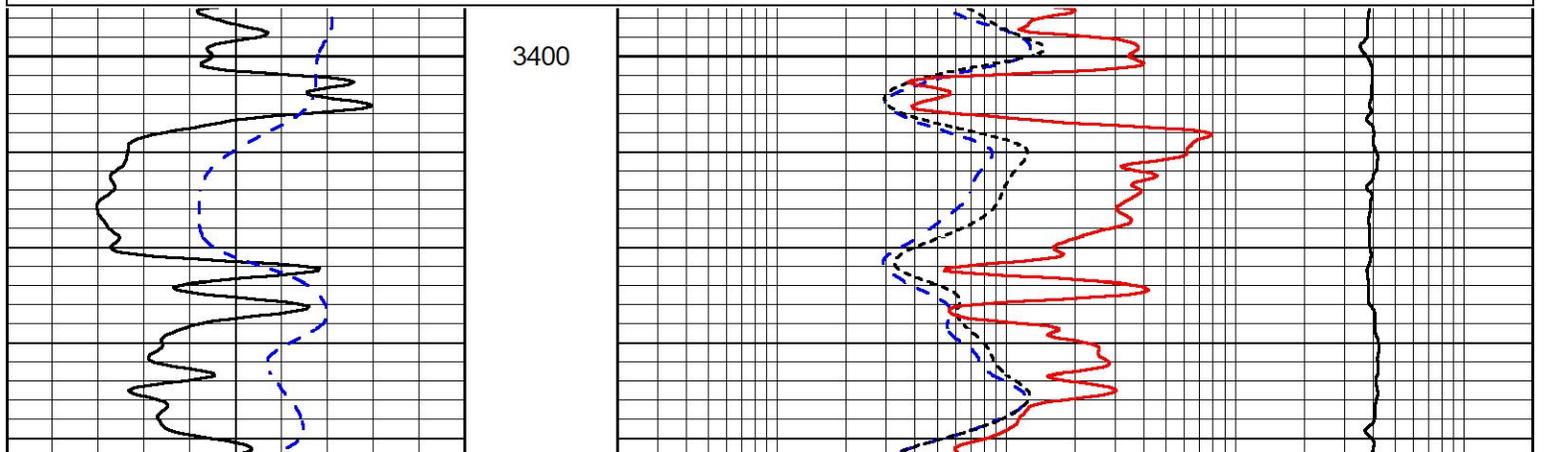


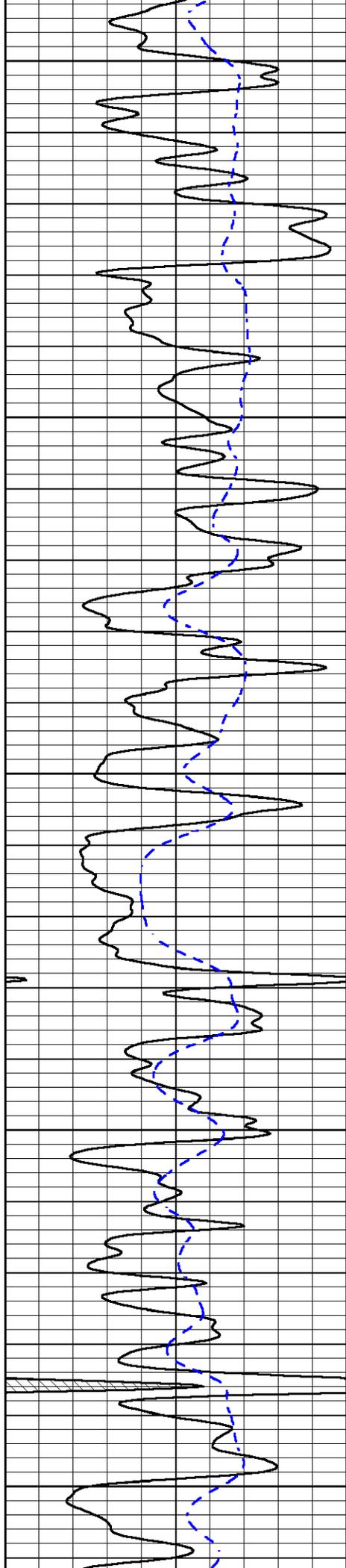


## DETAIL SECTION

### MAIN PASS

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 Presentation Format \_dil  
 Dataset Creation Mon Oct 25 13:03:14 2021  
 Charted by Depth in Feet scaled 1:240





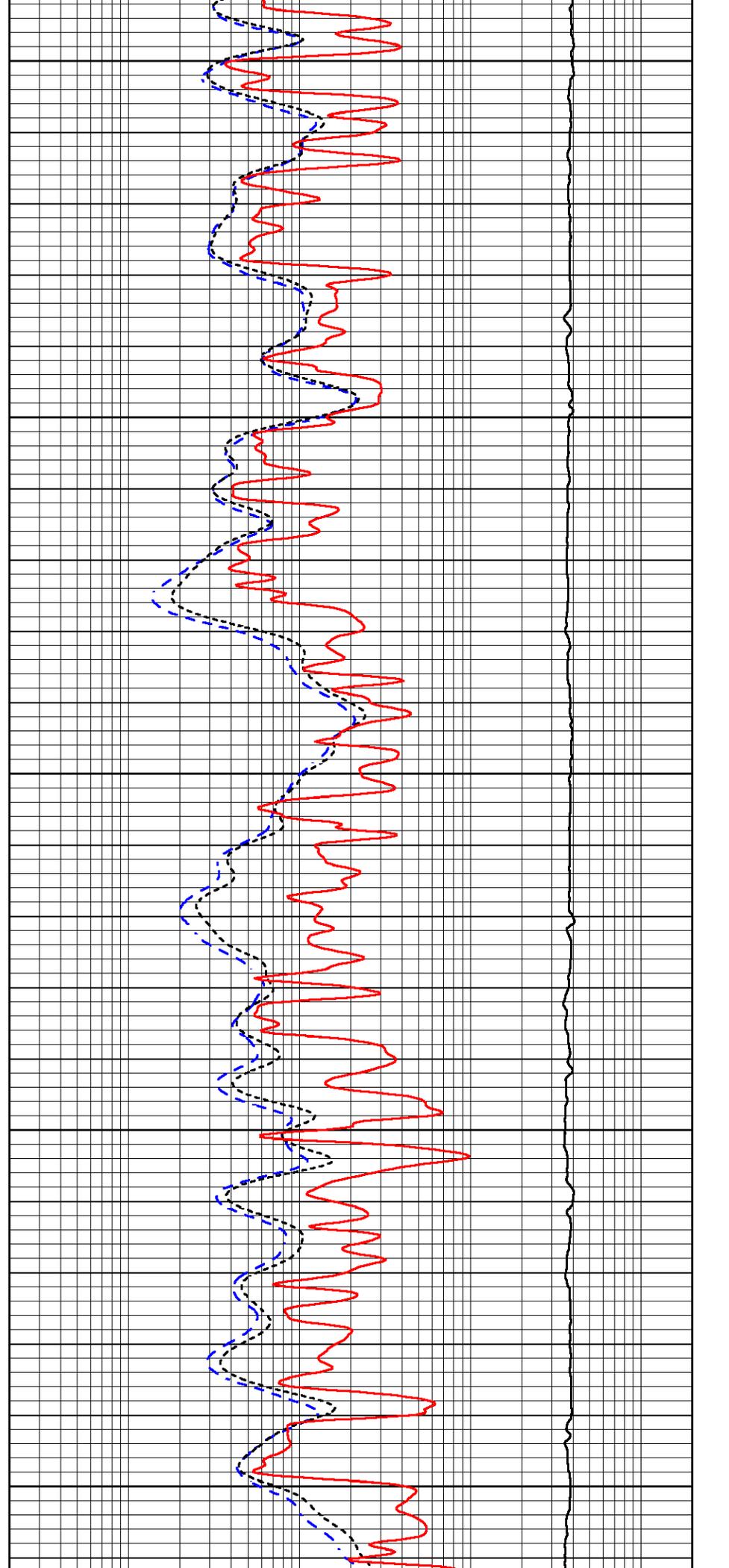
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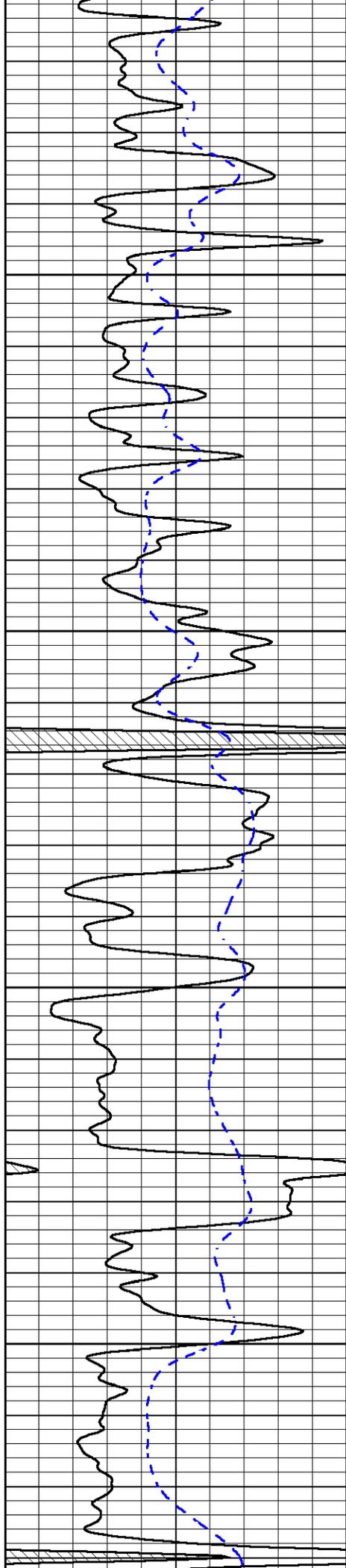
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3550

3600

3650



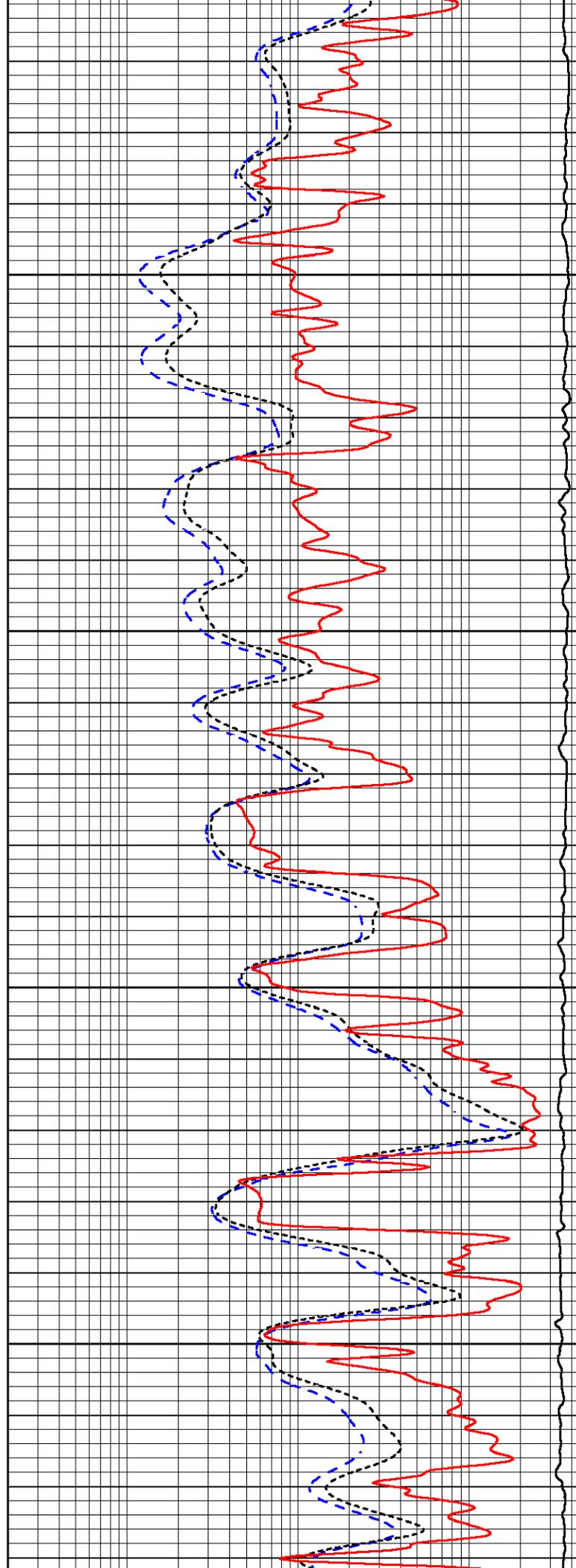


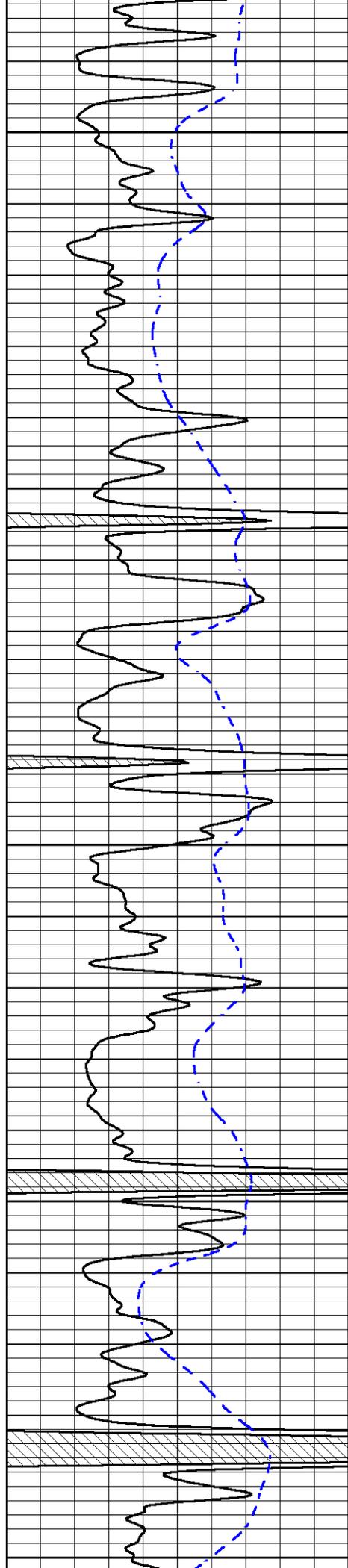
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3750

3800

3850





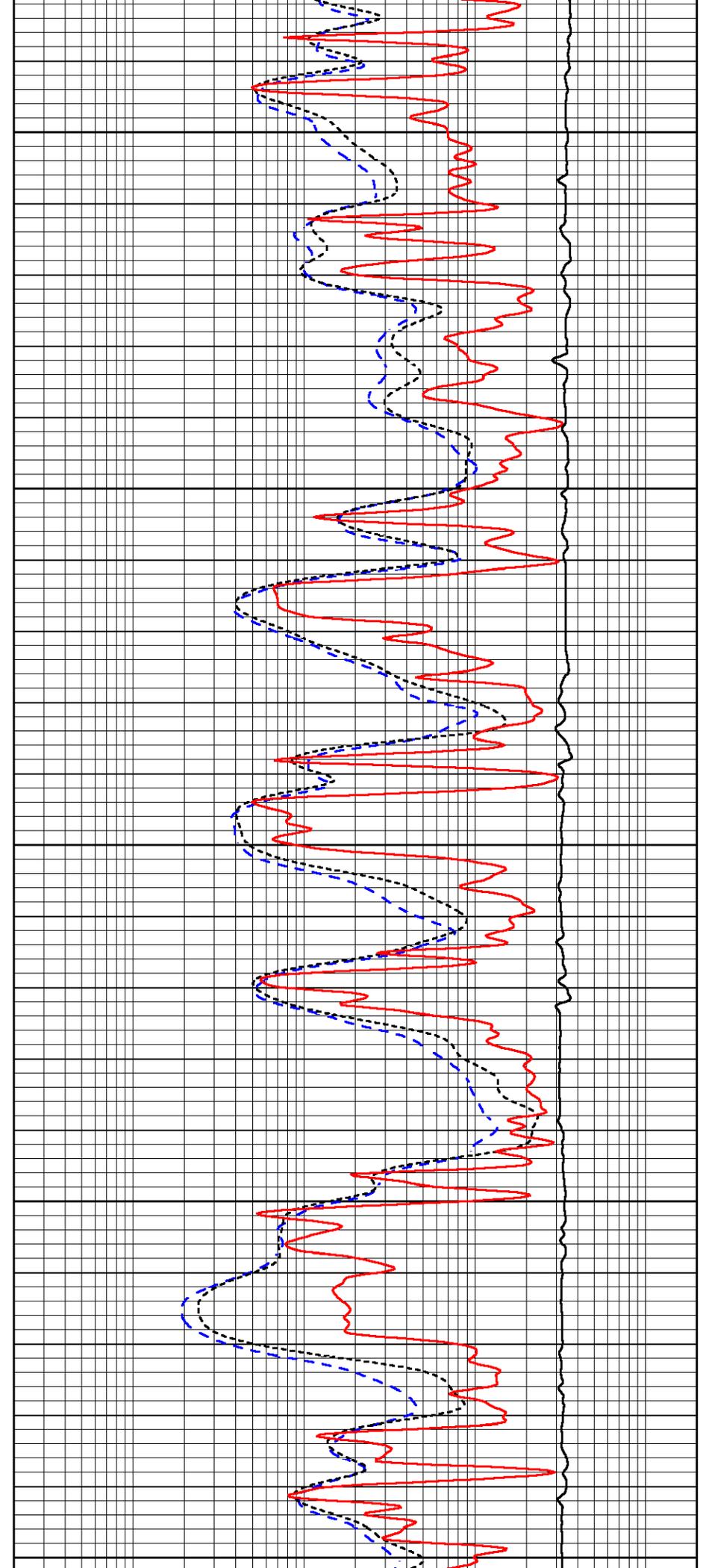
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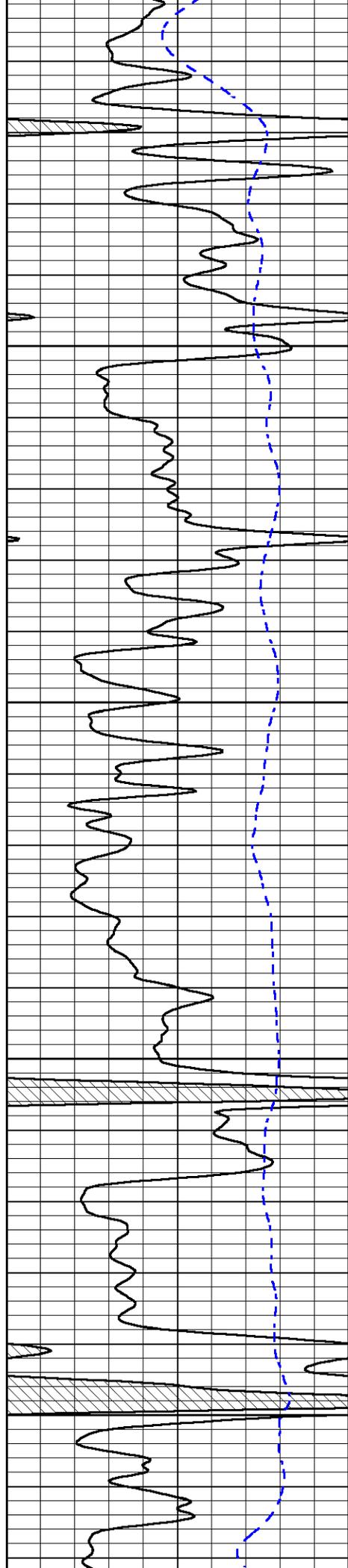
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4050

4100



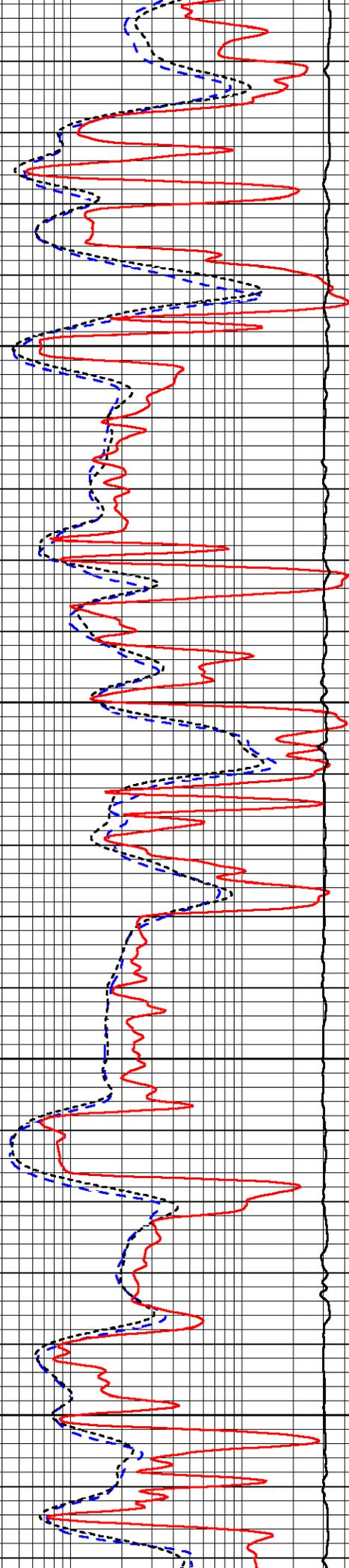


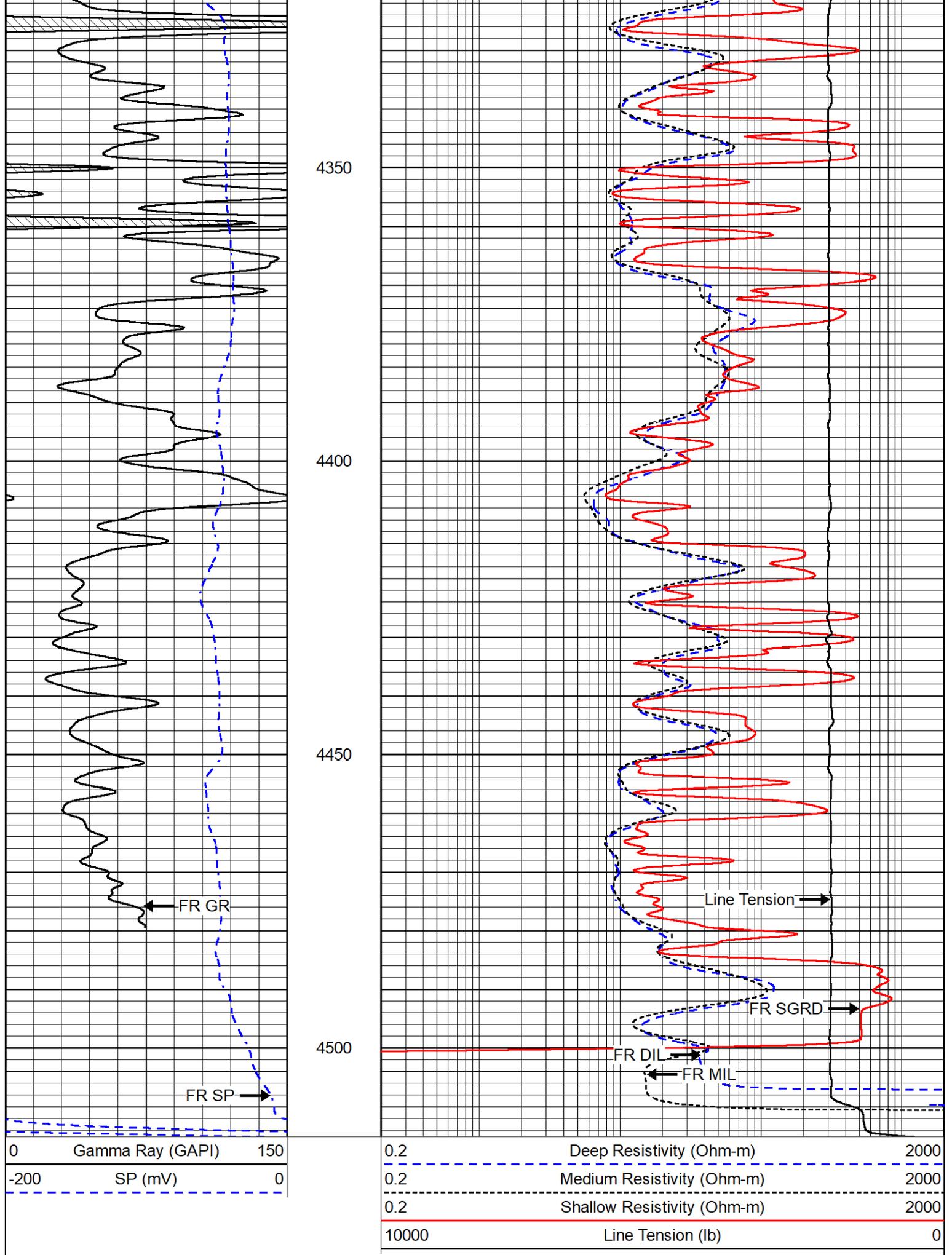
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4200

4250

4300





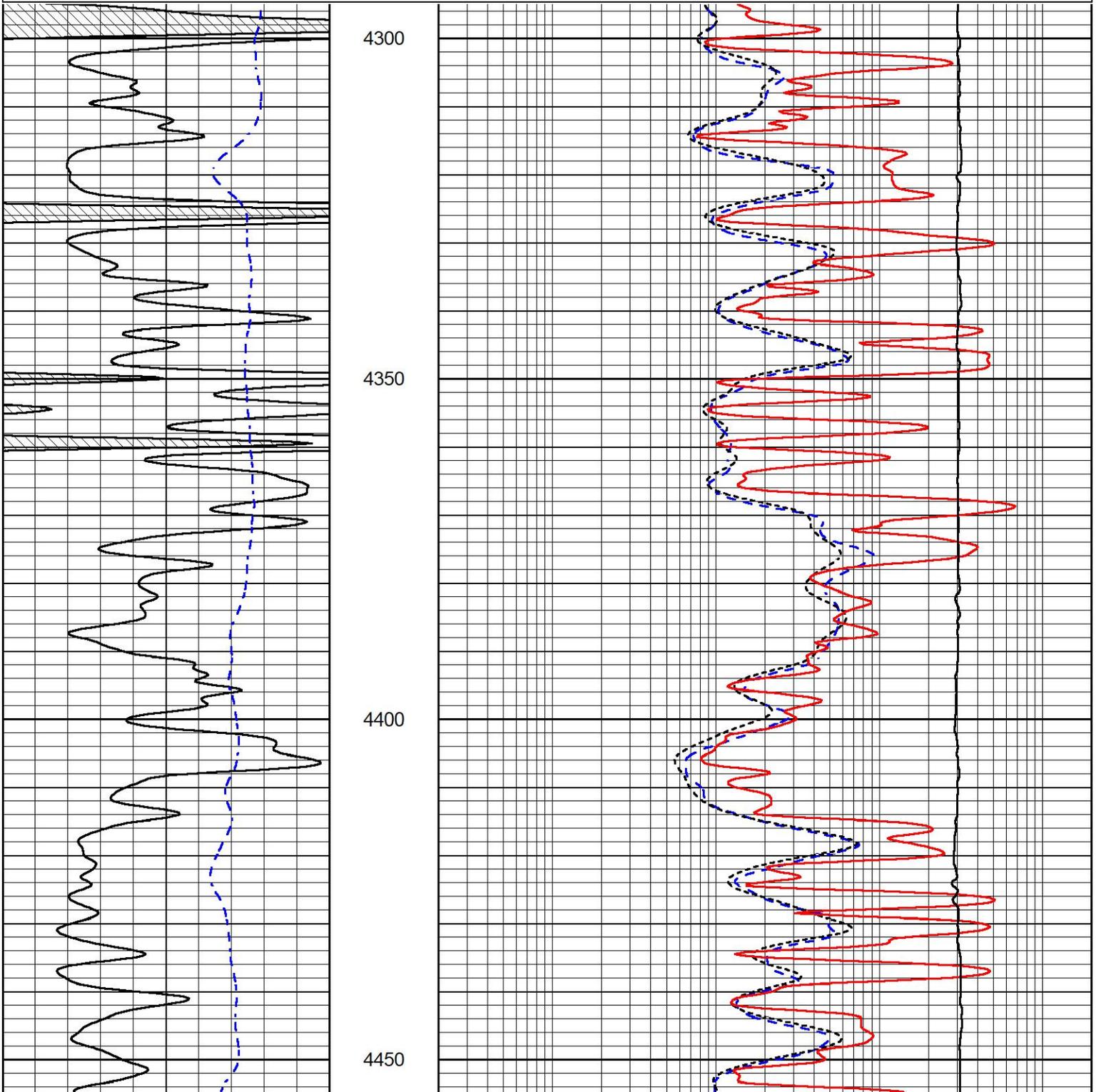


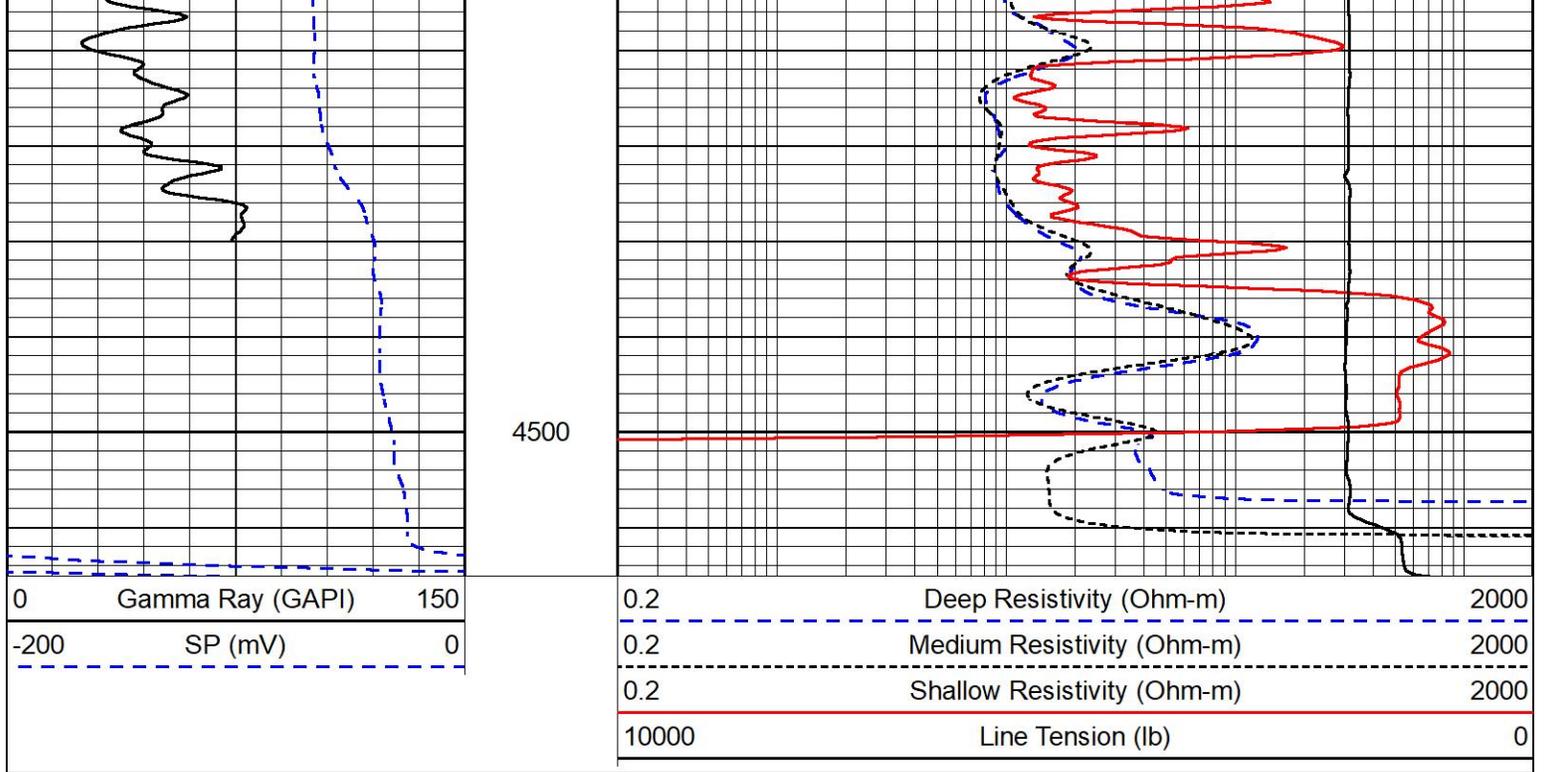
# REPEAT SECTION

## REPEAT PASS

Database File mgoil\_lawrence unit #15-2.db  
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 Presentation Format \_dil  
 Dataset Creation Mon Oct 25 12:18:16 2021  
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	Medium Resistivity (Ohm-m)	2000
			0.2	Shallow Resistivity (Ohm-m)	2000
			10000	Line Tension (lb)	0





Company	MG Oil, Inc.
Well	Lawrence Unit #15-2
Field	N&J
County	Lane
State	Kansas